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## WHAT IS CLAIMED IS:

- 1. A method for allocating bandwidth in a wireless Local Area Network having an Access Point and at least one wireless communication terminal, comprising the steps of:
- (a) the Access Point allocating a fixed bandwidth to said at least one wireless communication terminal;
  - (b) receiving a transmission rate corresponding to a desired Contention Free Period of data to be transceived from said at least one wireless communication terminal; and
- (c) adjusting a rate of Contention Free Period occupancy of said at least one wireless communication terminal in the fixed bandwidth, based on the received transmission rate.
  - 2. The method of claim 1, wherein the data is real time data.
  - 3. The method of claim 1, wherein in the step (a), the fixed bandwidth is a sum of the Contention Free Period for real time data transmitting/receiving, and a Contention Period for non-real time data transmitting/receiving.
  - 4. The method of claim 1, wherein in the step (b), the transmission rate received from said at least one wireless communication terminal is a data packet length and a data transmission speed.

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5. The method of claim 1, wherein the step (c) comprises the steps of:

calculating a Contention Free Period occupancy requested by said at least one wireless communication terminal;

accepting the Contention Free Period occupancy as a current Contention Free Period occupancy, if the Contention Free Period occupancy requested by said at least one wireless communication terminal does not exceed a Contention Free Period occupancy limit; and

associating said at least one wireless communication terminal to the Access Point after adjusting a ratio of the Contention Free Period to Contention Period, if a sum of the current Contention Free Period occupancy is less than a maximum Contention Free Period.

6. An apparatus for allocating bandwidth in a wireless Local Area Network, including at least one wireless communication terminal, comprising:

bandwidth fixing means for fixing bandwidth to be allocated to said at least one wireless communication terminal;

transmission rate receiving means for receiving a transmission rate of said at least one wireless communication terminal from said at least one wireless communication terminal, if said at least one wireless communication terminal is intended for a data transmission through a Contention Free Period; and

period adjusting means for adjusting a rate of a Contention Free Period occupancy of said at least one wireless communication terminal in the bandwidth, based on the received transmission rate.

- 7. The apparatus of claim 6, wherein the data is real time data.
- 8. The apparatus of claim 6, wherein the bandwidth is a sum of the Contention Free Period for real time data transmitting/receiving, and a Contention Period for non-real time data transmitting/receiving.
- 9. The apparatus of claim 6, wherein the transmission rate received from said at least one wireless communication terminal is a data packet length and a data transmission speed.
- 10. The apparatus of claim 6, wherein the period adjusting means comprises:

calculating means for calculating the Contention Free Period occupancy requested by said at least one wireless communication terminal, based on the received transmission rate;

accepting means for accepting the requested Contention Free Period occupancy as a current Contention Free Period occupancy, if the Contention Free Period occupancy requested by said at least one wireless communication terminal does not exceed a Contention Free Period occupancy limit; and

association means for associating the terminal to an Access Point after adjusting a ratio of the Contention Free Period to Contention Period, if a sum

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of the current Contention Free Period occupancy is less than a maximum Contention Free Period.